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- (71) Applicant (for all designated States except US): NEW TRANSDUCERS LIMITED [GB/GB]; Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AZIMA, Henry [CA/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB). HARRIS Neil, Geoffrey [GB/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB). MORECROFT, Denis [GB/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB). STARNES, Mark [GB/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB). COLLOMS, Martin [GB/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher

Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB). BURTON, Paul [GB/GB]; c/o New Transducers Limited, Cygnet House, Kingfisher Way, Hinchingbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW (GB).

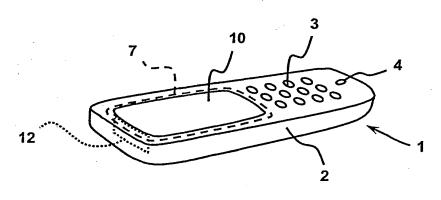
- (74) Agent: MAGUIRE BOSS; 5 Crown Street, St. Ives, Cambridgeshire PE17 4EB (GB).
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(54) Title: BENDING WAVE PANEL LOUDSPEAKER



(57) Abstract: From one aspect, the invention is a method of making a bending wave panel loudspeaker, comprising rigidly coupling a lever (12) to a panel edge or marginal portion such that the lever (12) extends at an angle to the plane of the panel (7), coupling a bending wave exciter to the lever (12) whereby bending wave energy is coupled to the panel (7) to produce an acoustic output when the exciter is fed with a signal and supporting the panel on a suspension positioned

outboard of the lever. From another aspect the invention is a bending wave panel-form loudspeaker (13) having a lever (12) rigidly coupled to a marginal portion (16) or edge of the panel, a vibration exciter (9) coupled to the lever to apply bending wave energy to the panel (7) to produce an acoustic output and a panel suspension (17) positioned outboard of the lever. From a further aspect, the invention is a small electronic device, e.g. a mobile telephone (1) or PDA, having a display screen (10), and a transparent protective cover (7) over the display screen, wherein the transparent protective cover (7) is a loudspeaker as described above.